

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER.....:

EM SCIENCE
A DIVISION OF EM INDUSTRIES
P.O. BOX 70
480 DEMOCRAT RD.
GIBBSTOWN, N.J. 08027

PREPARATION DATE.: 09/27/92
DATE MSDS PRINTED.: OCT 01, 1992

INFORMATION PHONE NUMBER.: 609-354-9200
HOURS: MON. TO FRI. 8:30-5
CHEMTREC EMERGENCY NUMBER: 800-424-9300
HOURS: 24 HRS A DAY

CATALOG NUMBER(S):

MX0214 MX0215 MX0216 5983

CHEMICAL NAME.....: MANNITOL
TRADE NAME.....: D-MANNITOL
CHEMICAL FAMILY...: CARBOHYDRATE
FORMULA.....: C6H14O6

MOLECULAR WEIGHT.: 182.18

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	APPR %
MANNITOL	69-55-8	100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HANDLING CARE GENERALLY IN KEEPING WITH SAFE LABORATORY PRACTICES IS RECOMMENDED.

APPEARANCE.....:

WHITE POWDER OR GRANULES

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

SYMPTOMS OF EXPOSURE:

TOXICITY CONSIDERED VERY LOW.

HANDLING CARE GENERALLY IN KEEPING WITH SAFE LABORATORY

MSDS (CONTINUED) - MX0214

PAGE # 1

449207



PRACTICES IS RECOMMENDED.
MEDICAL COND. AGGRAVATED BY EXPOSURE:
DATA NOT AVAILABLE.
ROUTES OF ENTRY.....:
INHALATION, INGESTION
CARCINOGENICITY.....:
THE MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS CANCER CAUSING
AGENT.

4. FIRST AID MEASURES

EMERGENCY FIRST AID:

GET MEDICAL ASSISTANCE IF ANY ADVERSE EFFECTS SHOULD DEVELOP.
SKIN: WASH THOROUGHLY WITH SOAP AND WATER.
EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15
MINUTES.
INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF
BREATHING HAS STOPPED.
INGESTION: GET IMMEDIATE MEDICAL ATTENTION; IF CONSCIOUS, GIVE
WATER FREELY.

5. FIRE FIGHTING MEASURES

FLASH POINT (F).....: NONE *
FLAMMABLE LIMITS LEL (%): N/A
FLAMMABLE LIMITS UEL (%): N/A
EXTINGUISHING MEDIA.....:
USE ANY SUITABLE FOR ADJACENT MATERIAL.
FIRE FIGHTING PROCEDURES.:
WEAR SELF-CONTAINED BREATHING APPARATUS.
FIRE & EXPLOSION HAZARDS.:
* NO FLASH POINT LISTED, BUT MATERIAL IS
CALLED COMBUSTIBLE BY CONDENSED CHEMICAL DICTIONARY (EDITION 11).

6. ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE:

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL.
WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER EXPOSURE /
PERSONAL PROTECTION.
ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED TO BE
FREE FROM EXPLOSION OR FIRE HAZARDS.
CONTAIN THE RELEASE AND ELIMINATE ITS SOURCE, IF THIS CAN BE DONE
WITHOUT RISK.
TAKE UP AND CONTAINERIZE FOR PROPER DISPOSAL AS DESCRIBED UNDER
DISPOSAL.

COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING RELEASES. REFER TO REGULATORY INFORMATION FOR REPORTABLE QUANTITY AND OTHER REGULATORY DATA.

7. HANDLING AND STORAGE

HANDLING & STORAGE:

KEEP CONTAINER CLOSED.

DO NOT BREATHE DUST.

DO NOT GET IN EYES.

AVOID PROLONGED, OR REPEATED, SKIN CONTACT.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION
MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.
PROTECTIVE GLOVES SHOULD BE WORN TO PREVENT SKIN CONTACT (NEOPRENE OR EQUIVALENT)
SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

WORK / HYGENIC PRACTICES:

WASH THOROUGHLY AFTER HANDLING.

DO NOT TAKE INTERNALLY.

EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

EXPOSURE GUIDELINES

OSHA - PEL:

COMPONENT	PPM	TWA MG/M3	PPM	STEL MG/M3	PPM	CL MG/M3	SKIN
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MANNITOL

ACGIH - TLV:

TWA

STEL

CL

MSDS (CONTINUED) - MX0214

PAGE # 3

MANNITOL

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (C 760 MMHG): 290-295
MELTING POINT (C): 165-167
SPECIFIC GRAVITY (H2O = 1): 1.52
VAPOR PRESSURE (MM HG): N/A
PERCENT VOLATILE BY VOL (%): N/A
VAPOR DENSITY (AIR = 1): N/A
EVAPORATION RATE (BUAC = 1): N/A
SOLUBILITY IN WATER (%): SOLUBLE
APPEARANCE:
WHITE POWDER OR GRANULES

10. STABILITY AND REACTIVITY

STABILITY: YES
HAZARDOUS POLYMERIZATION:
DOES NOT OCCUR

HAZARDOUS DECOMPOSITION:
COX

CONDITIONS TO AVOID:
NONE INDICATED

MATERIALS TO AVOID:
() WATER
() ACIDS
() BASES
() CORROSIVES
(X) OXIDIZERS
() OTHER :

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

ORL-RAT LD50: 13.5 GM/KG

TOXICOLOGICAL FINDINGS:

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE
MUTAGENIC EFFECTS

2. DISPOSAL CONSIDERATIONS

EPA WASTE NUMBERS:

TREATMENT:

MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE, HOWEVER CONSULTATION WITH A PERMITTED WASTE DISPOSAL SITE (TSD) SHOULD BE ACCOMPLISHED.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

13. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME....:

NON-REGULATED

DOT ID NUMBER.....: NONE

14. REGULATORY INFORMATION

TSCA INVENTORY.....:

THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

COMPONENT	SARA EHS (302)	SARA EHS TPQ (LBS)	CERCLA RQ (LBS)
MANNITOL			

COMPONENT	OSHA FLOOR LIST	SARA 313	DEMINIMIS FOR SARA 313 (%)
MANNITOL			

15. OTHER INFORMATION

COMMENTS:

NONE

NEPA HAZARD RATINGS:

HEALTH : 0

FLAMMABILITY : 1

REACTIVITY : 0

SPECIAL HAZARDS:

REVISION HISTORY:

10/01/82 10/27/87 10/05/83 03/01/91

= REVISED SECTION

N/A = NOT AVAILABLE

N/E = NONE ESTABLISHED

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MSDS - MX0214

PAGE # 6